



**Governor's STEM Advisory Council  
Executive Committee  
March 28, 2013  
10:30 a.m. to 12:30 p.m.**

**PRESENT ON SITE:**

Lt. Governor Kim Reynolds, co-chair  
UNI President Ben Allen, co-chair  
John Carver, member  
Rob Denson, member  
Debi Durham, member  
Brad Woody, member  
Jeff Weld, Executive Director

Lynne Campbell, NC Manager  
Kris Kilibarda, SC Manager  
Beth Kulow, SW Manager  
Kari Webb, NW Manager  
Sarah Derry, SC Hub staff  
Greta Johnson, Lt. Governor's Office  
Brenda Buzynski, UNI President's Office  
Linda Fandel, Governor's Office  
Kari Jastorff, Council Admin.  
Deb Dunkhase (Council member)  
Jeneane Beck, UNI (guest)

**DIAL IN ATTENDEES:**

Barry Butler, University of Iowa (proxy for Pres. Mason)  
Jonathan Wickert, Iowa State University (proxy for Pres. Leath)

**PRESENT VIA VIDEOCONFERENCE:**

James Hoelscher, NE Manager  
Rebecca Whitaker, SE Manager  
Disa Cornish, CSBR (evaluator)  
David Drake, University of Iowa (guest)  
Tonja Richards, Council Admin.  
Becky Wilhovsky, Council Admin.

**AGENDA:**

**Welcome.**

Lt. Governor Reynolds opened the meeting with updates on progress toward a STEM appropriation for FY 2014, and on an informal advisory group. The Council's request for \$4.7M for next year has passed the House and looks to be widely supported at that level in the Senate as well. She also informed the committee of a STEM Education and Entrepreneurship Informal Advisory Group of 13 members that will meet monthly beginning in April to brainstorm issues of entrepreneurship in STEM.

## 1. Summit Outcomes and Next Steps.

Weld summarized the March 5 outcome of setting up year 2 activities/strategies for the Council as accomplished. Implementation Team leaders who conducted update sessions at the Summit have been presented with a STEM Innovation Proposal template to be submitted to the Executive Committee for 2013-14 launch and funding needs. Each Team leader shared progress to date and foreshadowed the innovation to come.

Kris Kilibarda leads the **STEM licensure** team (closely interfacing with the BOEE). Four separate levels or conversations have emerged regarding STEM endorsements: a K-8 version, a 5-8 version, Teacher Leader in STEM, and Engineering as a CTE-style endorsement. The two most tenable at this stage, moving ahead quicker, are the K-8 endorsement and the engineering endorsement along the lines of CTE. Models will move through the BOEE approval process next year.

Kari Webb leads the **STEM-Focused Schools** team. She clarified the multi-model approach being taken for the “how-to manual” for Iowa schools; a “buffet” of sorts. She also hatched the concept of scaling up the STEM Classroom model that is used at the University of Iowa- the TILE (Transform, Interact, Learn, Engage -- <http://tile.uiowa.edu/>). It could be envisioned as a regional setting or draw at a regional center or at a school that would serve a region.

Lynne Campbell leads the **STEM Professional Development** team. The mission of the group has been well-defined and its timing and purposed relation to the imminent release of the Next Generation Science Standards presents Iowa the perfect opportunity to re-imagine professional development aligned to re-imagined roles for STEM teachers. A pilot model is being created that blends the skills and service potential of all stakeholders – AEAs, informals, business, higher education, and K-12. Full treatment of the topic to date can be viewed in the Summit documents at [http://www.iowastem.gov/sites/default/files/session\\_-\\_stem\\_pd.pdf](http://www.iowastem.gov/sites/default/files/session_-_stem_pd.pdf).

Deb Dunkhase leads the **Nonformal STEM Network** team. Tremendous out-of-school STEM resources can and should be brought to bear on the Council’s efforts. That requires first uniting those assets, which Deb’s team is working to do. A proposal is forthcoming as to how that can happen in 2013-14. Much more information on progress and vision for the group is posted at the Summit archive: [http://www.iowastem.gov/sites/default/files/session\\_-\\_informal\\_stem\\_05mar2013.pptx.pdf](http://www.iowastem.gov/sites/default/files/session_-_informal_stem_05mar2013.pptx.pdf).

John Carver leads the **Statewide Broadband** team on behalf of the Council. This high-powered committee is populated by telecommunications executives, ICN representatives, technology trade group representatives, and educational technology experts. The empty seat to be filled is someone from the cellular communications sector. Minnesota’s broadband strategic plan is an exemplar toward which the team aspires. Surveys and capacity tests have been and continue to be conducted to assess the state’s condition, which preliminarily suggests widescale inadequacy for high-speed internet needs of Iowa schools. John suggested everyone view the following videos:

“Boulder Thesis” [http://startupnorth.ca/2012/10/10/the-boulder-thesis-a-sketchbook/?\\_lsa=2ef6-e658](http://startupnorth.ca/2012/10/10/the-boulder-thesis-a-sketchbook/?_lsa=2ef6-e658)

“Boulder Thesis: Youtube Google Hang-out conversation”:

<http://www.youtube.com/watch?v=UJPCVrV-kaY&feature=youtu.be>

Additional information on the topic of Broadband was posted at the Summit:  
<http://www.iowastem.gov/sites/default/files/session- broadband.pdf>.

James Hoelscher leads the **Business Engagement in STEM** team. They have been very actively plotting the development of tactics that aid the Council and its engagement arm – the network and managers – in drawing Iowa’s business sector into STEM. Building an asset inventory, business engagement presentation resources, an on-line training module for business volunteers in STEM education, and STEM entrepreneur camps. Fuller explanations are posted as Summit archive:  
[http://www.iowastem.gov/sites/default/files/session- biz\\_engage\\_in\\_stem.pdf](http://www.iowastem.gov/sites/default/files/session- biz_engage_in_stem.pdf).

The challenge for the Executive Committee will be to prioritize and sequence these fronts moving forward in a fashion that best integrates with strategic interests, partners, and funding streams.

## **2. Scale-Up Round II.**

Beth Kulow updated the Executive Committee on the signature program of the Council to date: Scale-Up. Current programming (2012-13) is still in full swing with most programs quite active across Iowa, involving hundreds of educators and thousands of youth (and a small army of administrators exchanging contracts and invoices at each Hub). Evaluation activities are ramping up in order to capture effect.

Meanwhile nine exemplary programs have been identified for 2013-14, five of which are renewals. At this time the application window is open for educators across Iowa to register their interest in bringing a program to their school, club, faith-based facility, etc. As a matter of course, progress is right where it needs to be to match the remarkable first year roll-out, with well over 400 classrooms/clubs of nearly 100 applications in, with almost two weeks to go. Regional managers are saturating the state, communicating to teachers, administrators, club leaders, informal educators, and other eligible entities this opportunity.

## **3. Updates and Briefs.**

Time ran out before items up for discussion were covered. Rebecca Whitaker informed the group of Iowa’s unique position in the upcoming FIRST World Championships in St. Louis, April 25-27, having qualifying teams in all four divisions- FIRST Robotics, FIRST Tech Challenge, FIRST LEGO, and FIRST Jr. LEGO. Executive Committee member Brad Woody was invited to a VIP event associated with the World Championships and agreed to represent us there.

Dozens of STEM events sponsored by the STEM Council are occurring across the state this spring, to which members are encouraged to attend.

Upcoming meeting dates: May 23 is the next Executive Committee meeting and Aug. 15 is the next Advisory Council meeting.

#### **4. Closing comments.**

President Allen closed the meeting by acknowledging the strong effort being put forth by committee chairs and their members in moving all aspects of the Council's strategic plan forward. He observed that as a Council we have moved from appetite to delivery on promise, and that data collection and evidence will become paramount moving forward. He reminded everyone that it will be increasingly important to integrate programming of the Council with existent structures and institutions as a partner at the level of state government. Both co-chairs thanked everyone for their hard work.

ADJOURNED: 12:30PM

NEXT MEETING: May 23, 10:30-12:30

Compiled by Jeff Weld